

Systematic notes on tribes in the family Caliscelidae (Hemiptera: Fulgoroidea) with the description of new taxa from Palearctic and Oriental Regions

VLADIMIR M. GNEZDILOV¹ & MICHAEL R. WILSON²

¹Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, 199034, St. Petersburg, Russia.
E-mail: hemipt@zin.ru; vmgnezdilov@mail.ru

²Department of Biodiversity & Systematic Biology, National Museum of Wales, Cathays Park, Cardiff CF10 3NP, UK. E-mail: mike.wilson@nmgw.ac.uk

Table of contents

Abstract	2
Introduction	2
List of subfamilies, tribes, and subtribes of the Caliscelidae	4
Material and methods	4
Taxonomy	5
Key to subfamilies and tribes of the family Caliscelidae (modified after Emeljanov 1999)	5
Subfamily Ommatidiotinae	5
Tribe Adenissini	5
Key to subtribes and genera of the tribe Adenissini	6
Species of the tribe Adenissini	7
Subtribe Adenissina	8
<i>Adenissus riadicus</i> Dlabola	8
Genus <i>Perissana</i> Metcalf	10
Key to subgenera and species	13
Subgenus <i>Perissana</i> s. str.	13
<i>Perissana (Perissana) jakowleffi</i> (Puton)	13
<i>Perissana (Perissana) dlabolai</i> nom. nov. pro <i>Adenissus circularis</i> Dlabola, 1980	15
<i>Perissana (Perissana) bispinata</i> (Dlabola, 1980) comb. nov.	15
Subgenus <i>Raunolina</i> subgen. nov.	15
<i>Perissana (Raunolina) circularis</i> (Linnavuori)	16
<i>Perissana (Raunolina) arabica</i> sp. nov.	16
Subtribe <i>Pteriliina</i> subtribe nov.	17
Genus <i>Pterilia</i> Stål, 1859	18
<i>Pterilia ceylonensis</i> Stål	19

<i>Pterilia signata</i> Distant	21
Genus <i>Distantina</i> gen. nov.	22
<i>Pterygoma nasuta</i> Melichar	25
Tribe Coinquendini trib. nov.	25
Genus <i>Coinquenda</i> Distant	26
<i>Coinquenda nigroclavata</i> Distant	28
Acknowledgements	28
References	28

Abstract

A diagnosis of the family Caliscelidae Amyot et Serville, 1843 is given. The system of higher taxa of the family is revised. The genus *Coinquenda* Distant, 1916 is transferred to the subfamily Ommatidiotinae from the family Issidae. Coinquendini **trib. nov.** (type genus: *Coinquenda* Distant, 1916) is erected in the subfamily Ommatidiotinae. *Coinquenda nigroclavata* Distant, 1916 is redescribed. The tribe Adenissini Dlabola, 1980 is recharacterized and transferred to the subfamily Ommatidiotinae from the subfamily Caliscelinae. The rank of the tribe Bocrini Emeljanov, 1999 is reduced to the subtribe of the tribe Adenissini. As a result the genera *Perissana* Metcalf, 1952, *Pterilia* Stål, 1859, and *Pterygoma* Melichar, 1903 are transferred to the Adenissini from the family Issidae. Pteriliina **subtrib. nov.** (type genus: *Pterilia* Stål, 1859) is erected in the tribe Adenissini. *Distantina* **gen. nov.** (type species: *Elidiptera fimlivata* Walker, 1851) is erected in the subtribe Pteriliina **subtrib. nov.** Keys to the subfamilies, tribes, and subtribes of the Caliscelidae, the genera of the tribe Adenissini, and species of the genus *Perissana* Metcalf are given. *Anissus* Dlabola, 1980 and *Denissus* Dlabola, 1980 are placed in synonymy under *Perissana* Metcalf, 1952. *Perissana jakowleffi* (Puton, 1890) is redescribed. *Adenissus circularis* Dlabola, 1980 and *Anissus bispinatus* Dlabola, 1980 are transferred to the genus *Perissana*. *Perissana dlabolai* **nom. nov.** is proposed as a replacement name for *Adenissus circularis* Dlabola, 1980 (secondary homonym). *Raunolina* **subgen. nov.** (type species: *Perissus circularis* Linnavuori, 1952) is erected in the genus *Perissana*. *Perissana (Raunolina) arabica* **sp. nov.** is described from Saudi Arabia. 5th instar larva of *Adenissus riadicus* Dlabola, 1985 is described. New faunistic records for 5 species of the family are provided.

Key words: Hemiptera, Caliscelidae, Ommatidiotinae, Adenissini, *Perissana*, taxonomy, Palaearctic and Oriental Regions

Introduction

Until recently caliscelid planthoppers had been regarded as a subfamily of the Issidae but the rank of Caliscelidae Amyot et Serville, 1843 as a separate family has been supported by several authors (Tishechkin 1998, 2003, Emeljanov 1999, Yang & Chang 2000, Gnezdilov 2003a, b; Gnezdilov & Wilson 2005). Emeljanov (1999) provided diagnostic features for the family based on morphological characters and treated the family with 2 subfamilies — Caliscelinae and Ommatidiotinae including the tribes Ommatidiotini